

Amendments to the Claims

What is claimed is:

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62. (new) A sensor configured to monitor an anatomical region of a person to determine a plurality of physiological

characteristics of said person wherein said region includes at least a portion of a dermal layer extending over a chin region of said person, said chin region including at least one of the person's mandible, symphysis, mental protuberance, or incisive fossa, comprising:

a housing comprising

a base integrally formed with an enclosure for receiving a plurality of wires; and

a curved border area integrally formed with said base and extending out from said base wherein said curved border area is defined by a plurality of sloping sides and is capable of suctioning onto the patient's chin region; and

at least one light emitting source wherein said light emitting source is positioned within said base;

at least one detector wherein said detector is positioned within said base; and

a structure integrally formed within said housing and positioned between said detector and said light emitting source.

63. (new) The sensor of claim 62 wherein the detector is in data communication with a monitor.

64. (new) The sensor of claim 63 wherein the monitor is an oximeter.

65. (new) The sensor of claim 62 wherein the physiological characteristics includes at least one of blood oxygenation level, blood gases, respiratory rate, and pulse rate.

66. (new) The sensor of claim 62 wherein the sensor is attached to a chin strap of a helmet.